IN THE CLAIMS

This is a complete and current listing of the claims, marked with status identifiers in parentheses. The following listing of claims will replace all prior versions and listings of claims in the application.

- 1. (Currently Amended) A bus module for connecting automation unit to a backplane bus which can be usedusable to transport at least one of data and for power, with said the bus module havingcomprising: ----at least one bus connecting device (BL2) for connection to the backplane bus; and --at least one unit connecting device (AL2, BA2, μC2, OE1) including a serial optical interface (\(\text{\text{\$\mu}C2, OE1}\) for connection to the automation unit, characterized in that —the unit connecting device (AL2, BA2, pC2, OE1) hasincluding a coupling element, (BA2) which can be usedusable set up a point-to-point communication link to the automation unit.
- 2. (Currently Amended) The bus module as claimed in claim 1, in which wherein the coupling element (BA2) has includes a bus ASIC.
- 3. (Currently Amended) The bus module as claimed in claim 1 or 2, in which wherein the unit connecting device (AL2, BA2, μ C2, OE1) has includes a microcontroller (μ C2) which is connected to the coupling element (BA2) and drives the serial optical interface (μ C2, OE1).
- 4. (Currently Amended) The bus module as claimed in one of the preceding claims claim 1, in which wherein the serial

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optical interface $\frac{(\mu C2, OE1)}{(\mu C2, OE1)}$ comprises includes a UART interface.

- 5. (Currently Amended) The bus module as claimed in claim 4, in whichwherein the UART interface is integrated in the coupling element—(BA2).
- 6. (Currently Amended) The bus module as claimed in one of the preceding claims, in which claim 1, wherein the optical interface (µC2, OE1) enables at least one of half-duplex or and full-duplex operation.
- 7. (Currently Amended) A load feeder apparatus which is for coupling intended to be coupled to a backplane bus, comprising: and has ______ an interface (OE2, \(\mu C3) \) forto communicating communicate with a bus module (RM2), _ characterized in that _____ the interface (OE2, \(\mu C3) \) is being a serial optical interface.
- 8. (Currently Amended) The load feeder apparatus as claimed in claim 7, which has further comprising a microcontroller $\frac{\mu C3}{\hbar}$ that to controls the serial optical interface.
- 9. (Currently Amended) The load feeder apparatus as claimed in claim 7—or 8, in which wherein the serial optical interface $\frac{\text{(OE2, }\mu\text{C3)}}{\text{comprises}}$ includes a UART interface.
- 10. (Currently Amended) The load feeder apparatus as claimed in one of claims 7—to 9, in which wherein the optical interface $\frac{(OE2, \mu C3)}{(OE2, \mu C3)}$ —enables at least one of half-duplex or and full-duplex operation.

- 11. (New) The bus module as claimed in claim 2, wherein the unit connecting device includes a microcontroller connected to the coupling element and drives the serial optical interface.
- 12. (New) The bus module as claimed in claim 2, wherein the serial optical interface includes a UART interface.
- 13. (New) The load feeder apparatus as claimed in claim 8, wherein the serial optical interface includes a UART interface.
- 14. (New) The load feeder apparatus as claimed in claim 8, wherein the optical interface enables at least one of half-duplex and full-duplex operation.
- 15. (New) The load feeder apparatus as claimed in claim 9, wherein the optical interface enables at least one of half-duplex and full-duplex operation.
- 16. (New) A load feeder apparatus for coupling to a backplane bus, comprising:

interface means for communicating with a bus module, the interface means including a serial optical interface; and

control means for controlling the serial optical interface.

17. (New) The load feeder apparatus as claimed in claim 16, wherein the serial optical interface includes a UART interface.

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18. (New) The load feeder apparatus as claimed in claim 16, wherein the optical interface enables at least one of half-duplex and full-duplex operation.